

## Subject card

Subject name and code	Seminar on Railways, PG_00041395							
Field of study	Civil Engineering							
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies		Subject group			Optional subject group		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			3.0		
Learning profile	general academic profile		Assessme	sessment form		assessment		
Conducting unit	Department of Railway Engineering -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0		30.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
Subject objectives	The aim of subject is increasing by the students their knowledge on the problems with the railways through unassisted elaboration (on the basis of available literature) selected detail problems, presentation of paper, and surrender it of public discussion.							

Data wygenerowania: 21.11.2024 22:31 Strona 1 z 3

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile	The student has an advanced abilities with field of civil engineering, speciality transportation engineering, diploma profile railways	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[K7_U09] is able to design railway tracks of complex geometry on sections and stations, both newly designed and renovated; can make a plan and perform diagnostic of railway track and to interpret its results, propose conclusions; can evaluate durability and reliability of railroad elements	The student can design the complex track geometric systems of railway lines and stations, newly built as well as modernized; knows calculation algorithms and is able to evaluate in critical way applied methods of design and construct of railway lines	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	[K7_W08] has deep knowledge of railway track construction, including high speed railroads; design and renovation of railroads of complex geometry; has detailed knowledge about diagnistics of railroads, knows basics of railway traffic organisation and control	The student has a structured and theoretically encouraged knowledge with the railways' construction and design of complex track geometric systems	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile	The student has a structured and advanced knowledge with the field of civil engineering, speciality transportation engineering, diploma profile railways	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K7_K05] can manage a team in a responsible way, regarding the rules of occupational safety and health	The student is able to lead a team on specific tasks, in a responsible manner, respecting the principles of work safety	[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness			
Subject contents	The subject matter involves a widely understood problems with the design, construct and exploitation of railways.  A choose of detail problems belongs to the student; he lays down the papers and presentations.					
Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	appraisal of presentations	50.0%	40.0%			
	appraisal of papers	50.0%	60.0%			
Recommended reading	Basic literature	Bałuch H.: Układy geometryczne połączeń torów. WKŁ. Warszawa 1989.				
		<ol> <li>Koc W.: Elementy teorii projektowania układów torowych. Wyd. Pol. Gdańskiej 2004.</li> <li>Grulkowski S., Kędra Z., Koc W., Nowakowski M.: Drogi szynowe. Wyd. Pol. Gdańskiej, Gdańsk 2013 (skrypt w formacie pdf, link do wersji pełnotekstowej: pbc.gda.pl/dlibra/docmetadata?id=30780).</li> <li>Mieloszyk E., Grulkowski S., Milewska A.: Hazardous material-related propagation of the effects of train accidents in the subgrade. Transportation Overview - Przegląd Komunikacyjny 10/2018.</li> </ol>				
		Listings acquired single-handedly dotcom pages.	y by a student, including printed on			
	Supplementary literature	Not required				
	eResources addresses	· · · · · · · · · · · · · · · · · · ·				
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Data wygenerowania: 21.11.2024 22:31 Strona 2 z 3

Example issues/ example questions/ tasks being completed	Thematic area of performed papers is very wide; a key role plays here student's invention and desire to present an interesting problem for the listeners.
Work placement	Not applicable

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Data wygenerowania: 21.11.2024 22:31 Strona 3 z 3